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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/040,884**

DATE: 08/23/2002
TIME: 12:04:24

Input Set : **N:\Crf3\RULE60\10040884.raw**
Output Set: **N:\CRF3\08232002\J040884.raw**

ENTERED

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 1 <110> APPLICANT: ZENECA Limited
 2 <120> TITLE OF INVENTION: HUMAN RECEPTOR TYROSINE KINASE
 3 <130> FILE REFERENCE: 70332/US.Substantive
 4 <140> CURRENT APPLICATION NUMBER: 10/040,884
 5 <141> CURRENT FILING DATE: 2002-01-07
 7 <150> PRIOR APPLICATION NUMBER: US/09/310,438
 8 <151> PRIOR FILING DATE: 1999-05-28
10 <150> PRIOR APPLICATION NUMBER: US 60/088,958
11 <151> PRIOR FILING DATE: 1998-06-11
12 <160> NUMBER OF SEQ ID NOS: 6
13 <170> SOFTWARE: FastSEQ for Windows Version 3.0
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 2607
17 <212> TYPE: DNA
18 <213> ORGANISM: Homo Sapiens
19 <400> SEQUENCE: 1
20       gaggagggac acggaattac tcacagctgt gctgtgtgca ttctctgtgg gcctagcagg      60
21       gaaggggaca gccctgtggc aatgggcatg acacggatgc tcctggaatg cagtctcagt     120
22       gacaagttgt gtgtcatcca ggagaagcag tatgaagtga ttatcgtccc aactttgttg     180
23       gttactatct tcctcatcct tcttggggtc atcctgtggc tttttatcag agaacaaaga     240
24       actcaacagc agcgttctgg acctcaaggc attgccctg ttcctccacc tagggaccta      300
25       agctgggaag caggacatgg aggaaatgtg gctttgccac ttaaggagac atccgtggaa     360
26       aactttctgg agctaccac acctgccctg ctaagctgc aggtgccgcg ggagcaactc       420
27       tctgaagttc tggagcagat ttgcagtggt agctgtggc ccatctttcg agccaatatg       480
28       aacactgggg acccttctaa gcccaagagt gttattctca aggctttaaa agaaccagct     540
29       gggctccatg aggtacaaga tttcttaggg cgaatccaat tccatcaata cctggggaaa     600
30       cacaaaaacc tggtgcagct ggaaggctgc tgcactgaaa agctgccact ctatatggtg     660
31       ttggaggatg tggcccaggg ggacctgctc ggctttctct ggacctgtcg gcgggatgtg     720
32       atgactatgg atggtcttct ctatgatctc acagaaaaac aagtatatca catcggaaag     780
33       caggtccttt tggcgctgga attcctgcag gagaagcatt tgttccatgg ggatgtggca     840
34       gccaggaata ttctgatgca aagtgatctc actgctaagc tctgtggatt aggcctggct     900
35       tatgaagttt acacccgagg ggccatctcc tctactcaaa ccatacctct caagtggctt     960
36       gcccccagaac ggcttctcct gagacctgct agcatcagag cagatgtctg tgtcttttggg   1020
37       atcctgctct atgagatggt gactctagga gcaccaccgt atcctgaagt ccctcctacc    1080
38       agcatcctag agcatctcca aagaaggaaa atcatgaaga gacccagtag ctgcacacat    1140
39       accatgtaca gtatcatgaa gtcctgctgg cgctggcgtg aggctgaccg ccctcacct     1200
40       agagagctgc gcttgcgcct agaagctgcc attaaaactg cagatgacga ggctgtgtta    1260
41       caagtaccag agttggtggt acctgaactg tatgcagctg tggccggcat cagagtggag    1320
42       agcctcttct acaactatag catgctttga gagtctcgg gcaagaaaca ttcatgcatg      1380
43       agtatatgtt cttggaatca attcctctaa gaacagagaa tggtctttcc cagggacaca    1440
44       aagggagaaa tgggacatgg attcttgatc ttcctttaca catttctcgg gaaatctgaa    1500
45       atgatgctgg atgggactct acacatcctg agctaagaca tactgtcagt ctcacttctg    1560
46       ctgtcccagt cctagaaatc ctgggtagaa gtggtggacc tgtgcaaagg aggttttaga    1620
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```
47      actctgcagt atttgttggg gcatggcaca aataagctca tccctcccgt ccgaggctag    1680
48      tttcctctgg aaccacattt ttatctagat gaaaatttgg aatgaaatga aggaatagaa    1740
49      atccaataaa agagttgaag ggaaagaaaa tttaaggttc ttcttgctca ggattacaga    1800
50      tatggaccaa cacctccttc aagaaaaggt ggtaggacac aaagttcttc agtcctgagc    1860
51      cctacatgtg gggctggagg agaactataa cggaaaaacc tctgagtttc accttaggta    1920
52      tagataaaag aaagatggtc ccctttatc tgattctgag acaggtaaat tctgtttgtt    1980
53      actacgttta attagaaggt ggaggagtca tttcatgatt aagaacattc aacatgtatt    2040
54      gttcattaag ctagcttcct agttccgatt agactaagga gactaagcct agagagtcaa    2100
55      tgttagaaca gtgaaaagaa ttctgtgtgt gtgtgtgtgt gtgtgtgtgt gtgcacaata    2160
56      aataggaaat gtagaaacca agcaagaagg cttagtagct cagtctttaa caagggctag    2220
57      aaaagaatgt aatctgatat ggaaggatag cagcttctaa ttttcaatca tctgttgata    2280
58      tactgtgaaa cttattttat taaattaata tttattaaat ggaaatatgc ttttctggtt    2340
59      tataactact aaaaatatca tagggaggat aaaagtaaat aagtgaaagt taatgccaat    2400
60      agaaaaattc aagagataat gtacaatgtc agaaaaggga ttctttatgt gtaaatgggg    2460
61      ataatacctA tttcacaagg ttgttytgag gattgatacg ttttgagtat gtatttgtac    2520
62      actatctggc acatatgcgc tcaataaacg tgtttctcct taaaaaaaaa aaaaaaaaaa    2580
63      aaaaaaaaaa aaaaaaaaaa aaaaaaa                                        2607
```

65 <210> SEQ ID NO: 2
66 <211> LENGTH: 1269
67 <212> TYPE: DNA
68 <213> ORGANISM: Homo Sapiens
69 <400> SEQUENCE: 2

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70      atgggcatga cacggatgct cctggaatgc agtctcagtg acaagttgtg tgtcatccag      60
71      gagaagcagt atgaagtgat tatcgtccca actttgttgg ttactatctt cctcatcctt     120
72      cttggggtca tcctgtggct ttttatcaga gaacaaagaa ctcaacagca gcgttctgga     180
73      cctcaaggca ttgcccctgt tcctccacct agggacctaa gctgggaagc aggacatgga     240
74      ggaaatgtgg ctttgccact taaggagaca tccgtggaaa actttctggg agctaccaca     300
75      cctgccctgg ctaagctgca ggtgccgcgg gagcaactct ctgaagttct ggagcagatt     360
76      tgcagtggta gctgtgggcc catctttcga gccaatatga acactgggga cccttctaag     420
77      cccaagagtg ttattctcaa ggctttaaaa gaaccagctg ggctccatga ggtacaagat     480
78      ttcttagggc gaatccaatt ccatcaatac ctggggaaac acaaaaacct ggtgcagctg     540
79      gaaggctgct gcactgaaaa gctgccactc tatatggtgt tggaggatgt ggcccagggg     600
80      gacctgctcg gctttctctg gacctgtcgg cgggatgtga tgactatgga tggtcttctc     660
81      tatgatctca cagaaaaaca agtatatcac atcggaaagc aggtcctttt ggcgctggaa     720
82      ttcctgcagg agaagcattt gttccatggg gatgtggcag ccaggaatat tctgatgcaa     780
83      agtgatctca ctgctaagct ctgtggatta ggcctggctt atgaagttta cacccgaggg     840
84      gccatctcct ctactcaaac catacctctc aagtggcttg ccccagaacg gcttctcctg     900
85      agacctgcta gcatcagagc agatgtctgg tcttttggga tcctgctcta tgagatggtg     960
86      actctaggag caccaccgta tcctgaagtc cctcctacca gcatcctaga gcatctccaa    1020
87      agaaggaaaa tcatgaagag acccagtagc tgcacacata ccatgtacag tatcatgaag    1080
88      tcctgctggc gctggcgtga ggctgaccgc ccctcaccta gagagctgcg cttgcgccta    1140
89      gaagctgcca ttaaaactgc agatgacgag gctgtgttac aagtaccaga gttggtggta    1200
90      cctgaactgt atgcagctgt ggccggcatc agagtgggaga gcctcttcta caactatagc    1260
91      atgctttga                                                            1269
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93 <210> SEQ ID NO: 3
94 <211> LENGTH: 422
95 <212> TYPE: PRT
96 <213> ORGANISM: Homo Sapiens
97 <400> SEQUENCE: 3

RAW SEQUENCE LISTING   DATE: 08/23/2002
PATENT APPLICATION: US/10/040,884   TIME: 12:04:24

Input Set : N:\Crf3\RULE60\10040884.raw
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```
98    Met Gly Met Thr Arg Met Leu Leu Glu Cys Ser Leu Ser Asp Lys Leu
99    1               5                   10                  15
100   Cys Val Ile Gln Glu Lys Gln Tyr Glu Val Ile Ile Val Pro Thr Leu
101               20                  25                  30
102   Leu Val Thr Ile Phe Leu Ile Leu Leu Gly Val Ile Leu Trp Leu Phe
103               35                  40                  45
104   Ile Arg Glu Gln Arg Thr Gln Gln Gln Arg Ser Gly Pro Gln Gly Ile
105         50                  55                  60
106   Ala Pro Val Pro Pro Pro Arg Asp Leu Ser Trp Glu Ala Gly His Gly
107   65                  70                  75                  80
108   Gly Asn Val Ala Leu Pro Leu Lys Glu Thr Ser Val Glu Asn Phe Leu
109               85                  90                  95
110   Gly Ala Thr Thr Pro Ala Leu Ala Lys Leu Gln Val Pro Arg Glu Gln
111               100                 105                 110
112   Leu Ser Glu Val Leu Glu Gln Ile Cys Ser Gly Ser Cys Gly Pro Ile
113         115                 120                 125
114   Phe Arg Ala Asn Met Asn Thr Gly Asp Pro Ser Lys Pro Lys Ser Val
115         130                 135                 140
116   Ile Leu Lys Ala Leu Lys Glu Pro Ala Gly Leu His Glu Val Gln Asp
117   145                 150                 155                 160
118   Phe Leu Gly Arg Ile Gln Phe His Gln Tyr Leu Gly Lys His Lys Asn
119               165                 170                 175
120   Leu Val Gln Leu Glu Gly Cys Cys Thr Glu Lys Leu Pro Leu Tyr Met
121               180                 185                 190
122   Val Leu Glu Asp Val Ala Gln Gly Asp Leu Leu Gly Phe Leu Trp Thr
123         195                 200                 205
124   Cys Arg Arg Asp Val Met Thr Met Asp Gly Leu Leu Tyr Asp Leu Thr
125         210                 215                 220
126   Glu Lys Gln Val Tyr His Ile Gly Lys Gln Val Leu Leu Ala Leu Glu
127   225                 230                 235                 240
128   Phe Leu Gln Glu Lys His Leu Phe His Gly Asp Val Ala Ala Arg Asn
129               245                 250                 255
130   Ile Leu Met Gln Ser Asp Leu Thr Ala Lys Leu Cys Gly Leu Gly Leu
131               260                 265                 270
132   Ala Tyr Glu Val Tyr Thr Arg Gly Ala Ile Ser Ser Thr Gln Thr Ile
133               275                 280                 285
134   Pro Leu Lys Trp Leu Ala Pro Glu Arg Leu Leu Leu Arg Pro Ala Ser
135         290                 295                 300
136   Ile Arg Ala Asp Val Trp Ser Phe Gly Ile Leu Leu Tyr Glu Met Val
137   305                 310                 315                 320
138   Thr Leu Gly Ala Pro Pro Tyr Pro Glu Val Pro Pro Thr Ser Ile Leu
139               325                 330                 335
140   Glu His Leu Gln Arg Arg Lys Ile Met Lys Arg Pro Ser Ser Cys Thr
141               340                 345                 350
142   His Thr Met Tyr Ser Ile Met Lys Ser Cys Trp Arg Trp Arg Glu Ala
143               355                 360                 365
144   Asp Arg Pro Ser Pro Arg Glu Leu Arg Leu Arg Leu Glu Ala Ala Ile
145         370                 375                 380
146   Lys Thr Ala Asp Asp Glu Ala Val Leu Gln Val Pro Glu Leu Val Val
```

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```
147        385               390               395               400
148        Pro Glu Leu Tyr Ala Ala Val Ala Gly Ile Arg Val Glu Ser Leu Phe
149                      405               410               415
150        Tyr Asn Tyr Ser Met Leu
151                      420
153 <210> SEQ ID NO: 4
154 <211> LENGTH: 15
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo Sapiens
157 <400> SEQUENCE: 4
158        Glu Ala Asp Arg Pro Ser Pro Arg Glu Leu Arg Leu Arg Leu Glu
159         1               5               10               15
161 <210> SEQ ID NO: 5
162 <211> LENGTH: 27
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: PCR Primer
167 <400> SEQUENCE: 5
168        gccgtcgact gtgggcctag cagggaa                               27
170 <210> SEQ ID NO: 6
171 <211> LENGTH: 27
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: PCR Primer
176 <400> SEQUENCE: 6
177        gccgcggccg ctcaaagcat gctatag                               27
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VERIFICATION SUMMARY   DATE: 08/23/2002
PATENT APPLICATION: US/10/040,884   TIME: 12:04:25

Input Set : N:\Crf3\RULE60\10040884.raw
Output Set: N:\CRF3\08232002\J040884.raw